

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A balancing apparatus for rotating bodies, comprising:

- means for rotatably supporting a rotating body,
- at least two balancing rings disposed on said rotating body in axial side by side relationship with each other and coaxial with said rotating body, said rings being each unbalanced and rotatable with said rotating body and further susceptible of assuming different angular positions relative to said rotating body,
- detecting means for detecting unbalance of said rotating body and for detecting said angular positions of said rings relative to said rotating body, and
- positioning means operatively connected with, and responsive to, said detecting means for carrying out an angular rotation between said rings and said rotating body to bring said rings to a relative angular position corresponding to a balance state of said rotating body, wherein said positioning means comprises
 - positioning members selectively engageable with said rings in a stopped position of said rotating body, and

- driving means for selectively causing a relative angular rotation of said rings and said rotating body during mutual engagement of said positioning members and said rings.

2. (original) An apparatus as claimed in claim 1, further comprising friction means between said rings and said rotating body for preventing angular shiftings of said rings relative to said rotating body during disengagement of said rings from said positioning members.

3. (original) An apparatus as claimed in claim 1, wherein said rings each have a driving toothing and wherein said positioning members comprise at least one positioning gear to be selectively and in succession engaged with said toothing of each of said rings, said driving means comprising a servomotor for setting said positioning gear in rotation when said positioning gear is in engagement with a respective one of said rings and said rotating body is in said stopped position.

4. (original) An apparatus as claimed in claim 1, wherein said positioning members are carried by a support structure movable parallel to a rotation axis of said rotating body at least between a first and a second operating position, in which said positioning members are respectively engaged with a respective one of said rings.

5. (original) An apparatus as claimed in claim 4,
wherein said support structure comprises a slide slidably
mounted on a support post fastened to a table of a machine
tool.

6. (original) An apparatus as claimed in claim 1,
wherein said positioning members comprise means for locking
said rings, and said driving means comprises a servomotor for
angularly rotating said rotating body, said servomotor being
actuatable when said locking means selectively engages said
rings.

7. (original) An apparatus as claimed in claim 6,
wherein said rings have respective notches and said locking
means comprises locking elements adapted to selectively
penetrate in said notches of said rings.

8. (original) An apparatus as claimed in claim 7,
wherein said notches are formed in a circumferential surface
of said rings and wherein said locking elements are radially
and selectively movable relative to said rings between a non-
operating position, in which said locking elements are
disengaged from said notches, and an operating position, in
which said locking elements are in engagement with said
notches.

9. (original) An apparatus as claimed in claim 6, wherein said rings are arranged on a shaft of a tool-carrier rotated by a spindle of a machine tool, and wherein said locking means is carried by a fixed structure of said machine tool.

10. (original) An apparatus as claimed in claim 6, wherein said rings are arranged on a shaft of a tool-carrier rotated by a spindle of a machine tool, and wherein said locking means is disposed on a structure carried by a support of said spindle.

11. (original) An apparatus as claimed in claim 10, wherein said locking means is disposed on a slide slidable parallel to a rotation axis of said spindle.

12. (original) An apparatus as claimed in claim 6, wherein said rings are arranged on a shaft of a tool-carrier rotated by a spindle of a balancing machine, and wherein said locking means is carried by a fixed structure of said balancing machine.

13. (currently amended) An apparatus as claimed in claim 12, wherein said fixed structure extends parallel to said-a rotation axis of said spindle and wherein said locking means is supported slidably along said fixed structure.

14. (original) An apparatus as claimed in claim 1,
wherein said rings each have an unbalance milling.

15. (currently amended) An apparatus as claimed in
claim 1, wherein said rings each have at least one hole and
wherein a gauged mass of a material having a specific weight
different from the specific weight of the-a material of said
rings is arranged in said at least one hole.

16. (currently amended) An apparatus as claimed in
claim 1, further comprising adjustable friction means between
said rings and said rotating body for preventing angular
shiftings of said rings relative to said rotating body during
disengagement of said rings from said positioning members.